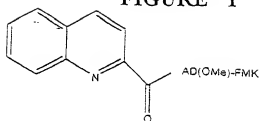
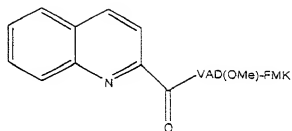


FIGURE 1



Quin-AD(OMe)-FMK M.Wt:339

FIGURE 1A



Quin-VAD(OMe)-FMK  
M.Wt:488, C<sub>24</sub>H<sub>19</sub>N<sub>4</sub>O<sub>6</sub>F

FIGURE 2

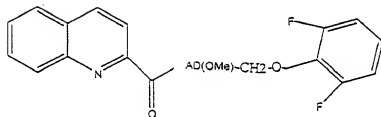
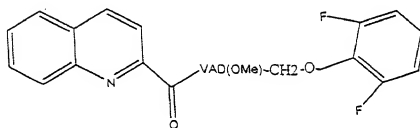


FIGURE 2A



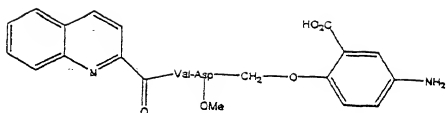


FIGURE 3

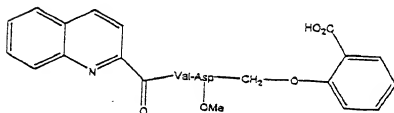


FIGURE 4

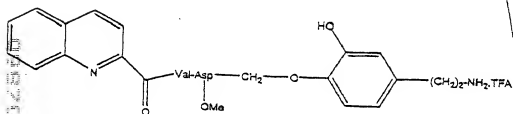


FIGURE 5

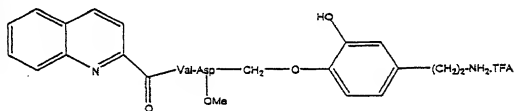


FIGURE 6

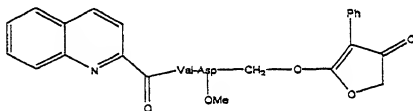
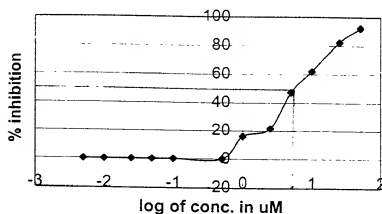


FIGURE 7

## FIGURE 8

Caspase 9

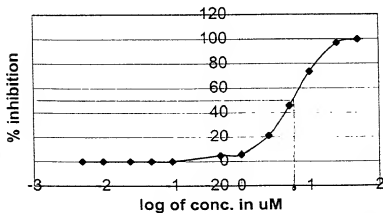
inh conc	log of con	% inhib
0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	0
.05uM	-1.301	0
.1uM	-1	0
0.5uM	-0.301	0
1uM	0	16.2
2.5uM	0.3979	21.8
5uM	0.6989	47.4
10uM	1	62
25uM	1.398	82.4
50uM	1.6989	92.6

Q-(C=O)-VD(OMe)-CH<sub>2</sub>-ASA

## FIGURE 9

Caspase 8

inh conc	log of con	% inhib
0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	0
.05uM	-1.301	0
.1uM	-1	0
0.5uM	-0.301	4.7
1uM	0	5.5
2.5uM	0.3979	21.1
5uM	0.6989	45.5
10uM	1	73.6
25uM	1.398	96.8
50uM	1.6989	99.8

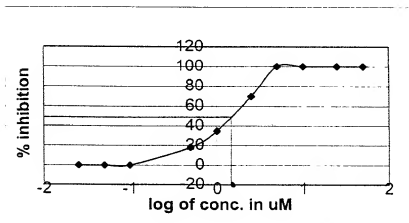
Q-(C=O)-VD(OMe)-CH<sub>2</sub>-ASA

## FIGURE 10

Caspase 1

inh conc log of con % inhib

.025uM	-1.602	0
.05uM	-1.301	0
.1uM	-1	0
0.5uM	-0.301	18.2
1uM	0	34.8
2.5uM	0.3979	69.7
5uM	0.6989	100
10uM	1	100
25uM	1.398	100
50uM	1.6989	100

Q-(C=O)-VD(OMe)-CH<sub>2</sub>-ASA

## FIGURE 11

Caspase 3

inh conc log of con % inhib

0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	2.3
.05uM	-1.301	9.1
.1uM	-1	6.4
0.5uM	-0.301	29.3
1uM	0	45
2.5uM	0.3979	74.8
5uM	0.6989	91.5
10uM	1	98.2
25uM	1.398	100
50uM	1.6989	100

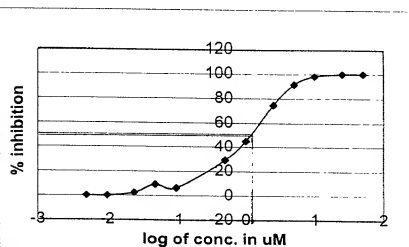
Q-(C=O)-VD(OMe)-CH<sub>2</sub>-ASA

FIGURE 12

Caspase 1		
inh conc	log of con	% inhib
.0025uM	-2.602	3.14
.005uM	-2.301	2.6
.01uM	-2	1.4
.025uM	-1.602	10.3
.05uM	-1.301	8.3
.1uM	-1	23.7
0.5uM	-0.301	50.9
1uM	0	66.29
2.5uM	0.3979	90.3
5uM	0.6989	96.3
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

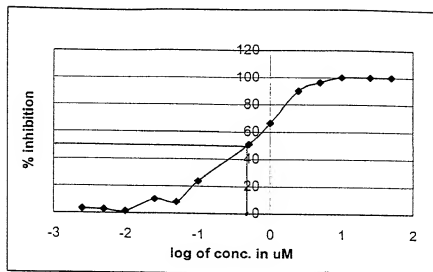
Indole-(C=O)-VD(OMe)-CH<sub>2</sub>-OPh

FIGURE 13

Caspase 1		
inh conc	log of con	% inhib
.0025uM	-2.602	16.3
.005uM	-2.301	19.4
.01uM	-2	22.6
.025uM	-1.602	42.86
.1uM	-1	44
0.5uM	-0.301	74
1uM	0	87.4
2.5uM	0.3979	97.1
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

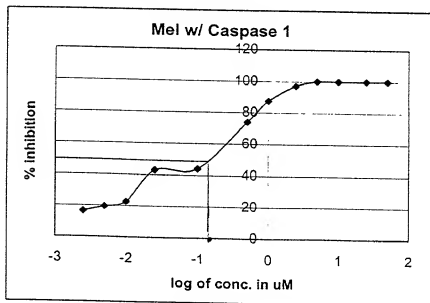
Melatonin-VD(OMe)-CH<sub>2</sub>-OPh

FIGURE 14

Caspase 1

Bzl-Melatonin-VD(OMe)-CH<sub>2</sub>-OPh

inh conc	log of con	% inhib
0.0025uM	-2.602	0
0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	0
.05uM	-1.301	7.3
.1uM	-1	26.8
0.5uM	-0.301	93.4
1uM	0	99.6
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.398	100
50uM	1.6989	100

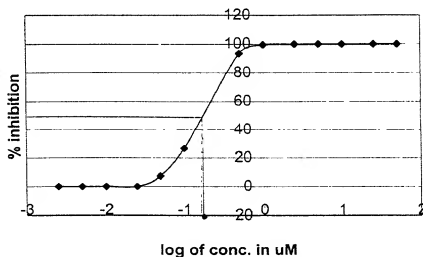
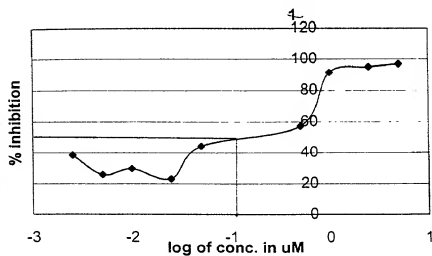


FIGURE 15

Caspase 1

HydroxyTryptophan-VD(OMe)-CH<sub>2</sub>-OPh

inh conc	log of con	% inhib
0.0025uM	-2.602	38.4
0.005uM	-2.301	25.7
0.01uM	-2	29.6
.025uM	-1.602	23
.05uM	-1.301	44.3
0.5uM	-0.301	57.2
1uM	0	91.4
2.5uM	0.3979	95
5uM	0.6989	96.9

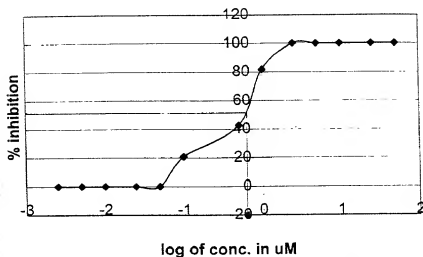


# FIGURE 16

TRP-VD(OCH<sub>3</sub>)-CH<sub>2</sub>-OPh · TFA

Caspase 1

inh conc	log of con	% inhib
0.0025uM	-2.602	0
0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	0
.05uM	-1.301	0
.1uM	-1	20.7
0.5uM	-0.301	42.7
1uM	0	81.7
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.398	100
50uM	1.6989	100

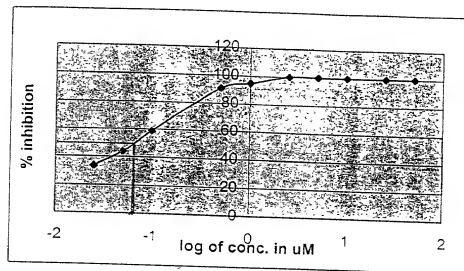


**FIGURE 17A**

Caspase 9

**Q-(C=O)-L-D-(OMe)-CH<sub>2</sub>-F (the FMK)**

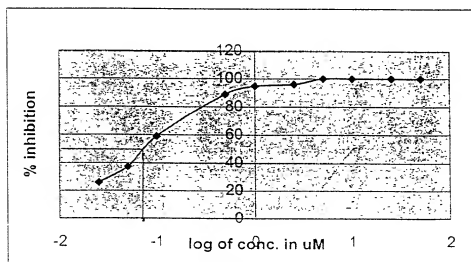
inh conc	log of con	% inhib
0.025uM	-1.602	33.6
0.05uM	-1.301	43.9
0.1uM	-1	58.7
0.5uM	-0.301	90.7
1uM	0	94.7
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

**FIGURE 17B**

Caspase 9

**Q-(C=O)-L-D-(OMe)-CH<sub>2</sub>-F (the FMK)**

inh conc	log of con	% inhib
0.025uM	-1.602	25.7
0.05uM	-1.301	37.3
0.1uM	-1	58.9
0.5uM	-0.301	88.9
1uM	0	94.9
2.5uM	0.3979	96.1
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100



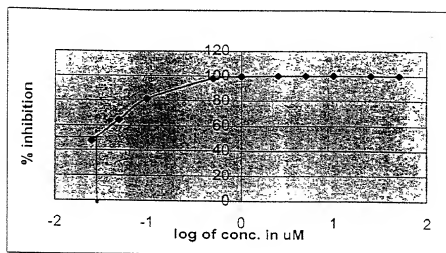


# FIGURE 18A

Caspase 9

 $\text{Q}-(\text{C}=\text{O})-\text{V}-\text{D}-(\text{OCH}_3)-\text{CH}_2-\text{F}$  (the FMK)

inh conc	log of con	% inhib
0.025uM	-1.602	47.3
0.05uM	-1.301	64.4
0.1uM	-1	81.2
0.5uM	-0.301	97.8
1uM	0	99.5
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100



# FIGURE 18B

Caspase 9

 $\text{Q}-(\text{C}=\text{O})-\text{V}-\text{D}-(\text{OCH}_3)-\text{CH}_2-\text{F}$  (the FMK)

inh conc	log of con	% inhib
0.025uM	-1.602	62.2
0.05uM	-1.301	76.3
0.1uM	-1	81.3
0.5uM	-0.301	99.1
1uM	0	100
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100

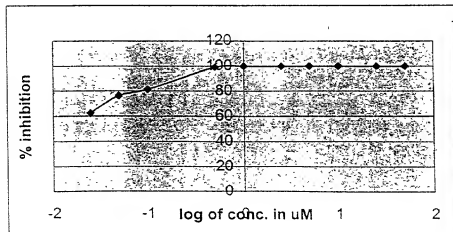


FIGURE 19

Caspase 1

inh conc	log of con	% inhib
0.0025uM	-2.602	0
0.005uM	-2.301	3.2
0.01uM	-2	0
.025uM	-1.602	1.1
.05uM	-1.301	0
.1uM	-1	0
0.5uM	-0.301	15.3
1uM	0	33.7
2.5uM	0.3979	72.1
5uM	0.6989	97.4
10uM	1	100
25uM	1.398	100
50uM	1.6989	100

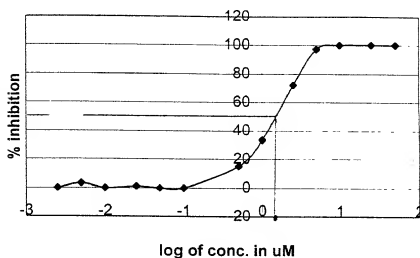
Q-(C=O)-VD(OMe)-CH<sub>2</sub>-SA

FIGURE 20

Caspase 3

inh conc	log of con	% inhib
0.005uM	-2.301	0
0.01uM	-2	0
.025uM	-1.602	0.57
.05uM	-1.301	2.8
.1uM	-1	18.3
0.5uM	-0.301	32.4
1uM	0	54.7
2.5uM	0.3979	87.8
5uM	0.6989	97.6
10uM	1	99.7
25uM	1.398	100
50uM	1.6989	100

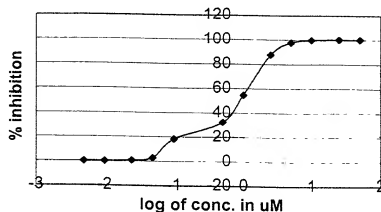
Q-(C=O)-VD(OMe)-CH<sub>2</sub>-SA

FIGURE 21

Q-(C=O)-L-D-CH<sub>2</sub>-OPh

Caspase 1

inh conc	log of con	% inhib
.025uM	-1.602	19
.05uM	-1.301	22
.1uM	-1	19
0.5uM	-0.301	46.7
1uM	0	69.5
2.5uM	0.3979	92.7
5uM	0.6989	98.5
10uM	1	87.3

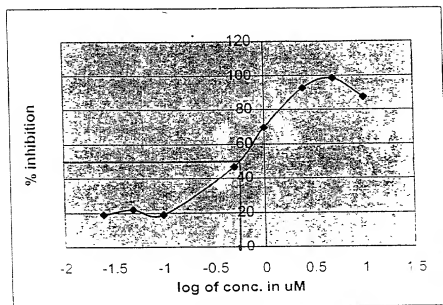
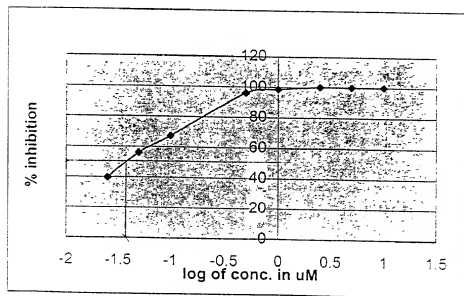


FIGURE 22

Q-(C=O)-V-D-CH<sub>2</sub>-OPh

Caspase 1

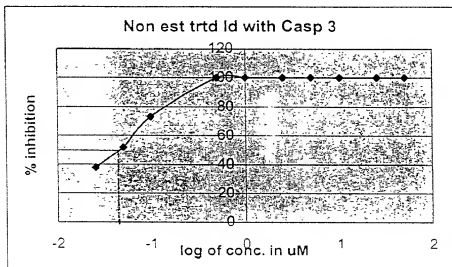
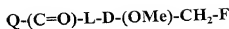
inh conc	log of con	% inhib
.025uM	-1.602	39.8
.05uM	-1.301	55.98
.1uM	-1	67.2
0.5uM	-0.301	95.8
1uM	0	98.5
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100



# FIGURE 25A

Non esterase treated Inhibitor D with Caspase 3

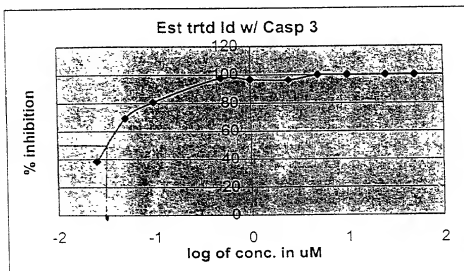
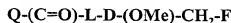
inh conc	log of con	% inhib
0.025uM	-1.602	37.8
0.05uM	-1.301	52
0.1uM	-1	73
0.5uM	-0.301	100
1uM	0	100
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100



# FIGURE 25B

Esterase treated Inhibitor D with Caspase 3

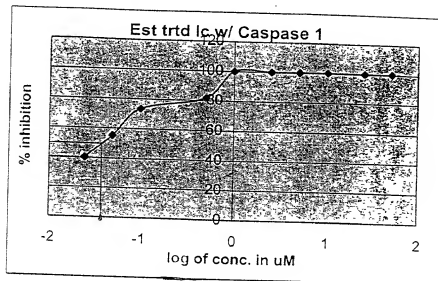
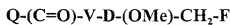
inh conc	log of con	% inhib
0.025uM	-1.602	38.2
0.05uM	-1.301	68.9
0.1uM	-1	80.7
0.5uM	-0.301	97.6
1uM	0	96.6
2.5uM	0.3979	96.2
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100



## FIGURE 23

Esterase treated Inhibitor C with Caspase 1

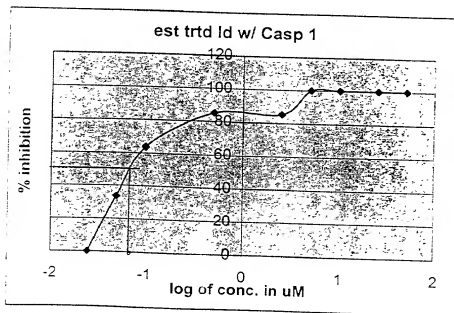
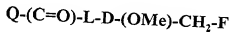
inh conc	log of con	% inhib
0.025uM	-1.602	40.1
0.05uM	-1.301	54.9
0.1uM	-1	73.2
0.5uM	-0.301	81.7
1uM	0	100
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100



## FIGURE 24

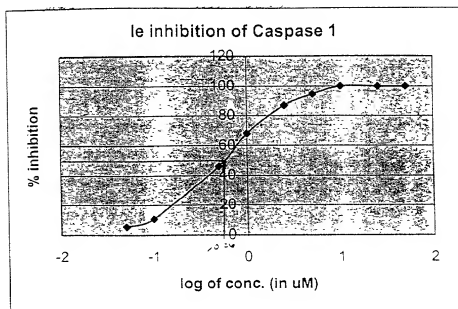
Esterase treated Inhibitor D with Casp 1

inh conc	log of con	% inhib
0.025uM	-1.602	0
0.05uM	-1.301	33.8
0.1uM	-1	63.4
0.5uM	-0.301	85.2
2.5uM	0.3979	85.2
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.6979	100



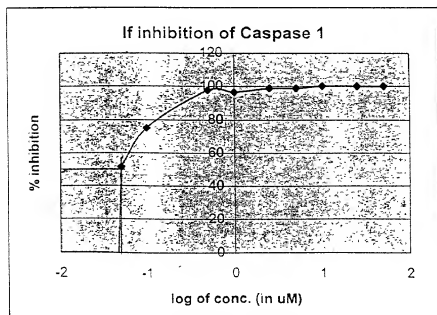
## FIGURE 26

Q-LD-OPh



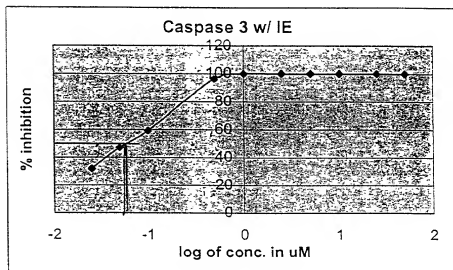
## FIGURE 27

Q-VD-OPh



Caspase 3 w/ IE -

inh conc	log of con	% inhib
.025uM	-1.602	31.85
.05uM	-1.301	47.1
.1uM	-1	59.2
0.5uM	-0.301	96.2
1uM	0	100
2.5uM	0.3979	100
5uM	0.6989	100
10uM	1	100
25uM	1.3979	100
50uM	1.699	100

Q-(C=O)-LD-CH<sub>2</sub>-O-Ph**FIGURE 28**

# FIGURE 29

## IMPORTANT AMINO ACIDS



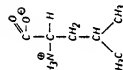
Glycine  
(Gly)



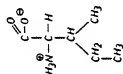
L-Alanine  
(Ala)



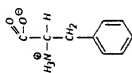
L-Valine  
(Val)



L-Leucine  
(Leu)



L-Isoleucine  
(Ileu)



L-Phenylalanine  
(Phe)



L-Proline  
(Pro)



L-Serine  
(Ser)



L-Threonine  
(Thre)



L-Cysteine  
(Cys-SH)



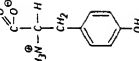
L-Cystine  
(Cys-S-S-Cys)



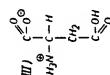
L-Methionine  
(Met)



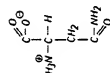
L-Tryptophan  
(Try)



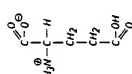
L-Tyrosine  
(Tyr)



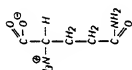
L-Aspartic acid  
(Asp)



L-Asparagine  
(Asp/NH<sub>2</sub>)



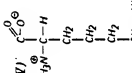
L-Glutamic acid  
(Glu)



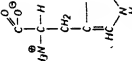
L-Glutamine  
(Glu/NH<sub>2</sub>)



L-Lysine  
(Lys)



L-Arginine  
(Arg)



L-Histidine  
(His)